## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

## **LISTING OF CLAIMS**

- 1. (Currently amended) A ceramic cooktop comprising:
- a cooking plate made of a material selected from the group formed by a glass ceramic and a glass;
  - a ceramic bonding layer provided on a surface of said cooking plate;
- a thermally sprayed electrically conducting intermediate layer located on said ceramic bonding layer and being connected to ground;
- a thermally sprayed insulating layer located on said intermediate layer; and a thermally sprayed electric heat conductor layer located on said insulating layer; wherein said intermediate layer is configured as an oxide layer that is rendered electrically conductive by oxygen loss during thermal spraying.
- 2. (original) The ceramic cooktop of claim 1, wherein said intermediate layer is made of a material selected from the group formed by TiO<sub>2</sub>, a mixture of Al<sub>2</sub>O<sub>3</sub> having a portion of at least 50 wt.-% of TiO<sub>2</sub>, ZrO<sub>2</sub>, a mixture of Al<sub>2</sub>O<sub>3</sub> with ZrO<sub>2</sub> having a portion of at least 50 wt.-% of ZrO<sub>2</sub>, and a mixture of Al<sub>2</sub>O<sub>3</sub> with TiO<sub>2</sub> and ZrO<sub>2</sub> having a portion of at least 50 wt.-% of TiO<sub>2</sub> and ZrO<sub>2</sub>.
- 3. (original) The ceramic cooktop of claim 1, wherein said insulating layer consists of a material selected from the group formed by cordierite and mullite.

4. (original) A ceramic cooktop comprising:

a cooking plate made of a material selected from the group formed by a glass ceramic and a glass;

a thermally sprayed electric heat conductor layer;

a thermally sprayed insulating layer arranged between said cooking plate and said heat conductor layer; and

an electrically conducting intermediate layer arranged between said cooking plate and said insulating layer;

wherein said intermediate layer is configured as a thermally sprayed layer consisting of cermet material.

- 5. (original) The ceramic cooktop of claim 4, wherein said cermet material has a metal matrix comprising at least one component selected from the group formed by nickel, cobalt and chromium.
- 6. (original) The ceramic cooktop of claim 4, wherein said cermet material has a metal matrix being configured as an alloy comprising the major components nickel, cobalt and chromium.
- 7. (original) The ceramic cooktop of claim 4, wherein said cermet material further comprises carbide particles dispersed within said metal matrix.

- 8. (original) The ceramic cooktop of claim 7, wherein said carbide particles are selected from the group formed by tungsten carbide and chromium carbide.
- 9. (original) The ceramic cooktop of claim 4, wherein said insulating layer consists of a material selected from the group formed by cordierite and mullite.
- 10. (original) The ceramic cooktop of claim 9, wherein said insulating layer is a thermally sprayed layer.
  - 11. (original) A ceramic cooktop comprising:

a cooking plate made of a material selected from the group formed by a glass ceramic and a glass;

an electric heat conductor layer;

an insulating layer arranged between said cooking plate and said heat conductor layer; and

an electrically conducting intermediate layer located between said cooking plate and said insulating layer;

wherein said intermediate layer is configured as a thermally sprayed layer consisting of an electrically conductive material selected from the group formed by a ceramic and a cermet.

- 12. (original) The ceramic cooktop of claim 11, wherein said intermediate layer is configured as an oxide layer that is rendered electrically conductive by oxygen loss during thermal spraying.
- 13. (original) The ceramic cooktop of claim 12, wherein said intermediate layer consists of a cermet material having a metal matrix comprising at least one component selected from the group formed by nickel, cobalt and chromium.
- 14. (original) The ceramic cooktop of claim 13, wherein said cermet material has a metal matrix being configured as an alloy comprising the major components nickel, cobalt and chromium.
- 15. (original) The ceramic cooktop of claim 14, wherein said intermediate layer consists of a cermet material having a metal matrix comprising carbide particles dispersed within said metal matrix.
- 16. (original) The ceramic cooktop of claim 15, wherein said carbide particles are selected from the group formed by tungsten carbide and chromium carbide.
- 17. (original) The ceramic cooktop of claim 14, wherein said insulating layer consists of a material selected from the group formed by cordierite and mullite.

18. (original) The ceramic cooktop of claim 17, wherein said insulating layer is a thermally sprayed layer.